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Ineodore A. Wood Elizabeth J. Haanes Bruce E. Chalker Joseph S. Ostroff Frank R. Cottingham Christine M. Lhulier Rae Lynn Prengaman Jane Shershenovich\* Lawrence J. Carroll\* George S. Bardmesser Daniel A. Klein\* Jason D. Eisenberg Michael D. Specht Andrea J. Kamage Tracy L. Muller\* Jon E. Wright\* LuAnne M. Yuricek\* John J. Figueroa Ann E. Summerfield Tiera S. Coston\* Aric W. Ledford\* Registered Patent Agents

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•Practice Limited to
Federal Agencies

November 26, 2003

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Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Art Unit 1637

Re:

U.S. Utility Patent Application

Appl. No. 09/891,332; Filed: June 27, 2001

For:

Polymerases for Analyzing or Typing Polymorphic

**Nucleic Acid Fragments and Uses Thereof** 

Inventors:

SOLUS et al.

Our Ref:

0942.4250003/BJD/JKM

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Second Supplemental Information Disclosure Statement;
- 2. List of cited references on Form PTO-1449 (23 sheets);
- 3. A copy of each reference cited on Form PTO-1449 (80 documents: AP3-AM6, and AS12-AS34); and
- 4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Sterne, Kessler, Goldstein & Fox PLLC.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com

Commissioner for Patents November 26, 2003 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Brian J. Del Buono Attorney for Applicants

Registration No. 42,473

BJD/JKM/acr Enclosures

SKGF\_DC1:203813.1



#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

application of:

SOLUS et al.

Appl. No. 09/891,332

Filed: June 27, 2001

For: Polymerases for Analyzing or Typing Polymorphic Nucleic Acid Fragments and Uses Thereof Confirmation No. 4572

Art Unit: 163

Examiner: Tung, J.

Atty. Docket: 0942.4250003/BJD/JKM

#### **Second Supplemental Information Disclosure Statement**

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Second Supplemental Information Disclosure Statement is a continuation in the numbering of Applicants' Information Disclosure Statement filed on October 5, 2001, and Applicants' First Supplemental Information Disclosure Statement filed electronically herewith, in connection with the above-captioned application. A copy of each document is also provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

SOLUS *et al.* Appl. No. 09/891,332

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Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application. Payment of the fee under 37 C.F.R. § 1.17(p) is included with the First Supplemental Information Disclosure Statement filed electronically herewith. It is believed that this fee covers both submissions.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Brian J. Del Buono Attorney for Applicants Registration No. 42,473

Date: Nov. 76, 2003

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600



# SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.4250003/BJD/JKM	APPLICATION NO. 09/891,332
APPLICANT SOLUS et al.	
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	AR	13	Deoxynucleos	ide Triphosph	., "Identification and A nate Binding Site in <i>Esc</i> 1709, American Chemical	herichi	a coli DNA 1	
	AS	Beese, L.S., et al., "Crystal Structures of the Klenow Fragment of DNA Polymerase I Complexed with Deoxynucleoside Triphosphate and Pyrophosphate,"  Biochemistry 32:14095-14101, American Chemical Society (1993).						
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	AS	<u>15</u>	Thermophile 7	Chien, A., et al., "Deoxyribonucleic Acid Polymerase from the Extreme Thermophile <i>Thermus aquaticus," J. Bacteriol. 127</i> :1550-1557, American Society for Microbiology (1976).					
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	AS	<u>16</u>	Study Using a	Das, S.K., and Fujimura, R.K., "Processiveness of DNA Polyerases: A Comparative Study Using a Simple Procedure," <i>J. Biol. Chem. 254</i> :1227-1232, The American Society for Biochemistry and Molecular Biology, Inc. (1979).					
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	Derbyshire, V., et al., "The 3'-5' exonuclease of DNA polymerase I of Escherichia coli: contribution of each amino acid at active site to the reaction," EMBO J. 10:17-24, Oxford University Press (1991).							
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	AR	Fujimura, R.K., and Roop, B.C., "Characterization of DNA Polymerase Induced by Bacteriophage T5 with DNA Containing Single Strand Breaks," J. Biol. Chem. 251:2168-2175, The American Society for Biochemistry and Molecular Biology, Inc. (1976).							
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	AT	<u>19</u>	Gerard, G.F., et al., "Poly(2'-O-methylcytidylate) Oligodeoxyguanylate as a Template for the Ribonucleic Acid Directed Deoxyribonucleic Acid Polymerase in Ribonucleic Acid Tumor Virus Particles and a Specific Probe for the Ribonucleic Acid Directed Enzyme in Transformed Murine Cells," Biochemistry 13:1632-1641, American Chemical Society (1974).						
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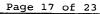




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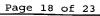
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	AS	<u>28</u>	Confer Sensit	eha-Krantz, L.J., et al., "Bacteriophage T4 DNA Polymerase Mutations That onfer Sensitivity to the PP, Analog Phosphonoacetic Acid," J. Virol. 67:60-66, merican Society for Microbiology (1993).					
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	AL							Yes No
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	AR	33	Activity of I	Bacteriophage 47-6458, The	n, C.C., "Selective Inac e T7 DNA Polymerase by í American Society for Bi	n Vitro	Mutagenesis	s," J. Biol.
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### SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.4250003/BJD/JKM	APPLICATION NO. 09/891,332
APPLICANT SOLUS et al.	
FILING DATE June 27, 2001	GROUP 1637

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				U.S. PAT	ENT DOCUMENTS			
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	AR	34	neapolitana d	occurring in	"Thermotoga thermarum sp African continental sol Springer-Verlag (1989).	. nov. d	and Thermoto	oga Arch.
	AS	<u>34</u>	"Alphabetical	l list of com	mpounds," Sigma Catalog,	p. 484	, Sigma-Aldr	rich Company
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